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PotlatchDeltic

PotlatchDeltic Land and Lumber, LLC

St. Maries Complex
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St. Maries, ID 83861
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February 28, 2020

Clean Air Act Compliance Manager
U.S. EPA – Region 10, 20-C04
1200 Sixth Avenue, Suite 155
Seattle, WA 98101-3188

Mr. Lester Higgins
Coeur d'Alene Tribe
P.O. Box 408
Plummer ID 83851-0408

Re: 2019 Annual Report for Kiln 6
PotlatchDeltic Land and Lumber, LLC, St. Maries Complex
mNSR Permit No. R10TNSR01901
PSD Permit No. R10PSD00102

PotlatchDeltic Land and Lumber LLC (PotlatchDeltic) owns and operates a lumber mill and plywood mill in St. Maries, Idaho known as the St. Maries Complex. The Complex is located on the Coeur d'Alene Indian Reservation, within U.S. Environmental Protection Agency's (EPA's) regulatory jurisdiction. EPA issued minor new source review (mNSR) permit (R10TNSR01901) and the prevention of significant deterioration (PSD) permit (R10PSD00102) to construct and operate a new lumber dry kiln (Kiln 6) at the Complex. Kiln 6 started operation on October 16, 2019. This annual report includes a summary of required monitoring, emission calculations, and permit deviations from 2019.

Summary of Required Monitoring

Condition 5.5 of the mNSR and condition 5.3 of the PSD require a summary of the annual monitoring required by the mNSR and PSD permits. PotlatchDeltic conducted the following monitoring in 2019:

- **Kiln 6 Monitoring Data**: wood species dried, thousand board feet dried per batch (mbf/batch), batch drying time (per day and per batch), equivalent volume of lumber dried per day (mbf/day), continuously measure exiting air temperature per batch, continuously measure entering air temperature per batch, and continuously measure moisture content of lumber starting the thirteenth hour of each batch's drying cycle.

- **Riley and CE Boiler Data:** continuously monitor steam production, oxygen concentration (%) in exhaust, multiclone pressure drop, ESP secondary voltage and current, ESP spark rate, and ESP secondary power.

- **Sawmill and Planer Mill Data:** continuously monitor sawmill, planer mill, and baghouse 4 daily operating hours.

- **Sawmill Plant Traffic:** frequency of water applications to paved and unpaved areas, frequency of chemical applications to paved and unpaved roadways, chemical identification, frequency of sweeping paved areas.

- **Visible Emission Surveys:** conduct monthly/quarterly visible emission surveys of sawmill and planer mill sources. Maintain records each visual survey, any follow-up investigations of visible emissions, any Method 9 observations conducted, and list of emission units and activities that are potential sources of fugitive dust or visible emissions.

- **Fugitive Dust Survey:** conduct an annual fugitive dust survey and develop a written plan specifying reasonable precautions to prevent fugitive dust emissions.

PM_{10}, $PM_{2.5}$ and VOC Emissions

Both mNSR and PSD permits include emission calculation and reporting requirements. PotlatchDeltic has enclosed the following emission reports:

- Kiln 6 daily $PM_{2.5}$ emissions and annual PM_{10}/$PM_{2.5}$ emissions (mNSR Conditions 4.8 and 4.9);

- Sawmill and Planer Mill daily and annual $PM_{2.5}$ emissions (mNSR Condition 4.9); and

- Kiln 6 annual VOC emissions (PSD Condition 4.3) with monitoring data summary.

Deviation Reporting

Both mNSR and PSD permits include the requirement to report deviations in their semi-annual and annual reports. There were no deviations from the mNSR permit conditions that were not previously reported to EPA Region 10. A summary of six deviations from Condition 3.3 of the PSD permit (Kiln 6 exit air temperature work practice standard) are enclosed with this annual report.

PotlatchDeltic has communicated with EPA Region 10 air permitting staff about necessary changes to the mNSR and PSD permits to address the daily $PM_{2.5}$ limit for Kiln 6, exiting air temperature work practice standard for Kiln 6, VOC emission factors for Kiln 6, and clarify deviation reporting requirements. A permit application to revise the mNSR and PSD permits will be submitted to EPA Region 10 in March 2020.

If you have any questions, please contact Mr. Jacob Odekirk at (208) 245-7503.

Steve Henson

Plant Manager
PotlatchDeltic Land and Lumber, LLC - St. Maries Complex

Enclosure

cc: Jacob Odekirk – Environmental Manager - St. Maries Complex

PotlachDeltic - St. Maries Complex

Kiln 6 PM10/PM2.5 Emissions

2019 Annual Report

- Combines daily equivalent lumber dried per operating day (i.e., one batch of lumber finishes and another starts on the same day)

lb PM/mbf - Emission Factor from Conditions 3.6 and 3.8 of mNSR Permit No.

0.051 R10TNSR018001

lb PM2.5/day - Emission Limit from Condition 3.6 of mNSR Permit No.

9.52 R10TNSR018001

tpy PM10/PM2.5 - Emission Limits from Conditions 3.7 and 3.8 of mNSR Permit No.

1.74 R10TNSR018001

0.32 tpy 2019 Actual PM10/PM2.5 emissions

Date	Sum of Equivalent Lumber Dried (bf/d)	PM10/PM2.5 Emissions (lb/day)
10/16/19	120,733	6.16
10/17/19	161,267	8.22
10/18/19	62,187	3.17
10/19/19	193,412	9.86
10/20/19	152,762	7.79
10/21/19	161,228	8.22
10/22/19	180,464	9.20
10/23/19	168,092	8.57
10/24/19	175,158	8.93
10/25/19	177,412	9.05
10/26/19	166,350	8.48
10/27/19	170,403	8.69
10/28/19	182,641	9.31
10/29/19	164,703	8.40
10/30/19	153,647	7.84
10/31/19	150,346	7.67
11/1/19	157,932	8.05
11/2/19	171,548	8.75
11/3/19	165,517	8.44
11/4/19	135,639	6.92
11/5/19	131,256	6.69
11/6/19	180,256	9.19
11/7/19	133,000	6.78
11/8/19	159,089	8.11
11/9/19	168,287	8.58
11/10/19	175,136	8.93
11/11/19	169,141	8.63
11/12/19	157,787	8.05
11/13/19	163,760	8.35
11/14/19	136,226	6.95

PotlachDeltic - St. Maries Complex

Kiln 6 PM10/PM2.5 Emissions

2019 Annual Report

- Combines daily equivalent lumber dried per operating day (i.e., one batch of lumber finishes and another starts on the same day)

lb PM/mbf - Emission Factor from Conditions 3.6 and 3.8 of mNSR Permit No.

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lb PM2.5/day - Emission Limit from Condition 3.6 of mNSR Permit No.

9.52 R10TNSR018001

tpy PM10/PM2.5 - Emission Limits from Conditions 3.7 and 3.8 of mNSR Permit No.

1.74 R10TNSR018001

0.32 tpy 2019 Actual PM10/PM2.5 emissions

Date	Sum of Equivalent Lumber Dried (bf/d)	PM10/PM2.5 Emissions (lb/day)
11/15/19	135,677	6.92
11/16/19	175,610	8.96
11/17/19	170,673	8.70
11/18/19	175,771	8.96
11/19/19	158,855	8.10
11/20/19	163,441	8.34
11/21/19	174,093	8.88
11/22/19	162,086	8.27
11/23/19	175,840	8.97
11/24/19	168,684	8.60
11/25/19	166,113	8.47
11/26/19	156,548	7.98
11/27/19	157,954	8.06
11/28/19	171,570	8.75
11/29/19	155,656	7.94
11/30/19	161,160	8.22
12/1/19	146,200	7.46
12/2/19	132,056	6.73
12/3/19	146,782	7.49
12/4/19	153,410	7.82
12/5/19	170,703	8.71
12/6/19	158,763	8.10
12/7/19	171,569	8.75
12/8/19	177,064	9.03
12/9/19	171,802	8.76
12/10/19	174,350	8.89
12/11/19	167,185	8.53
12/12/19	175,174	8.93
12/13/19	180,461	9.20
12/14/19	94,099	4.80

PotlachDeltic - St. Maries Complex

Kiln 6 PM10/PM2.5 Emissions

2019 Annual Report

- Combines daily equivalent lumber dried per operating day (i.e., one batch of lumber finishes and another starts on the same day)

lb PM/mbf - Emission Factor from Conditions 3.6 and 3.8 of mNSR Permit No.
0.051 R10TNSR018001

lb PM2.5/day - Emission Limit from Condition 3.6 of mNSR Permit No.
9.52 R10TNSR018001

tpy PM10/PM2.5 - Emission Limits from Conditions 3.7 and 3.8 of mNSR Permit No.
1.74 R10TNSR018001

0.32 tpy 2019 Actual PM10/PM2.5 emissions

Date	Sum of Equivalent Lumber Dried (bf/d)	PM10/PM2.5 Emissions (lb/day)
12/15/19	69,847	3.56
12/16/19	169,041	8.62
12/17/19	161,404	8.23
12/18/19	162,068	8.27
12/19/19	166,410	8.49
12/20/19	143,233	7.30
12/21/19	180,816	9.22
12/22/19	175,237	8.94
12/23/19	182,967	9.33
12/24/19	183,983	9.38
12/25/19	169,335	8.64
12/26/19	173,915	8.87
12/27/19	168,330	8.58
12/28/19	164,468	8.39
12/29/19	170,977	8.72
12/30/19	166,663	8.50
12/31/19	173,397	8.84

PotlatchDeltic - St. Maries Complex

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions
2019 Annual Report

- Sawmill, Planer Mill, Baghouse 4, and Boiler emission factors and emission limits from Conditions 3.6 & 3.7 in mNSR Permit No. R10TNSR01801

	Sawmill	Planer	BagHouse# 4	CE Boiler (PB-1)	Riley Boiler (PB-2)
Date	Operating Hours	Operating Hours	Operating Hours	mlb steam	mlb steam
10/16/2019	18.22	17.33	24.0	912	1,608
10/17/2019	17.75	16.33	24.0	720	1,248
10/18/2019	-	-	9.3	144	936
10/19/2019	-	-	-	48	1,056
10/20/2019	-	-	-	408	1,368
10/21/2019	18.00	17.07	24.0	840	1,656
10/22/2019	17.08	16.40	24.0	816	1,824
10/23/2019	17.22	16.92	24.0	816	1,824
10/24/2019	17.18	16.80	24.0	600	1,392
10/25/2019	17.60	14.73	24.0	432	1,080
10/26/2019	17.83	-	10.8	48	720
10/27/2019	-	-	-	264	1,368
10/28/2019	-	16.17	24.0	648	1,896
10/29/2019	16.43	17.70	24.0	720	1,992
10/30/2019	17.05	17.30	20.0	672	1,944
10/31/2019	18.08	17.23	24.0	792	1,560
11/1/2019	17.95	-	16.0	168	1,128
11/2/2019	-	-	-	96	1,128
11/3/2019	-	-	-	432	1,440
11/4/2019	15.38	16.43	24.0	816	1,968
11/5/2019	17.73	18.17	24.0	768	2,064
11/6/2019	18.12	18.78	24.0	768	1,968
11/7/2019	18.27	15.75	20.0	600	1,512
11/8/2019	18.15	14.80	24.0	96	960
11/9/2019	-	-	-	72	840
11/10/2019	-	-	-	192	1,392
11/11/2019	17.15	17.40	20.0	576	1,968
11/12/2019	15.85	11.92	24.0	552	1,920
11/13/2019	18.28	16.82	24.0	744	1,944
11/14/2019	16.42	16.75	24.0	744	1,488
11/15/2019	-	16.13	20.0	96	1,080
11/16/2019	-	-	-	96	1,032
11/17/2019	-	-	-	168	1,272
11/18/2019	18.75	17.20	20.0	672	1,680
11/19/2019	18.07	16.97	24.0	696	1,824
11/20/2019	18.18	17.73	24.0	768	1,728
11/21/2019	17.12	15.35	24.0	816	1,512
11/22/2019	18.22	17.45	20.0	192	1,128
11/23/2019	-	-	-	96	960
11/24/2019	-	-	-	264	1,608
11/25/2019	17.73	16.95	24.0	648	1,776
11/26/2019	18.43	15.23	22.8	552	1,464
11/27/2019	18.00	18.13	22.3	96	1,272
11/28/2019	-	-	-	96	912
11/29/2019	-	-	-	96	1,128
11/30/2019	-	-	-	96	960
12/1/2019	-	-	-	168	1,728

PotlatchDeltic - St. Maries Complex

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions
2019 Annual Report

- Sawmill, Planer Mill, Baghouse 4, and Boiler emission factors and emission limits from Conditions 3.6 & 3.7 in mNSR Permit No. R10TNSR01801

	Sawmill	Planer	BagHouse# 4	CE Boiler (PB-1)	Riley Boiler (PB-2)
Date	Operating Hours	Operating Hours	Operating Hours	mlb steam	mlb steam
12/2/2019	13.27	15.60	20.0	432	1,824
12/3/2019	17.22	15.88	24.0	840	1,824
12/4/2019	15.77	20.00	24.0	840	1,920
12/5/2019	18.38	15.43	24.0	96	1,416
12/6/2019	16.92	18.05	20.0	72	1,008
12/7/2019	-	-	-	72	840
12/8/2019	-	-	-	408	1,440
12/9/2019	18.47	17.77	24.0	696	2,088
12/10/2019	18.82	17.75	24.0	648	2,040
12/11/2019	18.32	14.77	24.0	720	1,968
12/12/2019	19.15	16.30	24.0	744	1,488
12/13/2019	18.50	16.73	20.0	168	984
12/14/2019	-	-	-	264	552
12/15/2019	-	-	-	312	1,416
12/16/2019	17.50	18.67	24.0	696	1,944
12/17/2019	17.83	18.38	24.0	792	2,040
12/18/2019	16.40	20.15	24.0	792	1,920
12/19/2019	18.93	18.48	24.0	216	1,392
12/20/2019	19.18	18.32	22.1	96	1,056
12/21/2019	-	4.85	8.0	96	1,056
12/22/2019	-	-	-	96	1,080
12/23/2019	-	16.98	20.0	96	984
12/24/2019	-	-	-	96	1,128
12/25/2019	-	-	-	96	1,032
12/26/2019	17.68	16.57	20.0	96	840
12/27/2019	18.52	16.65	20.0	96	1,056
12/28/2019	-	-	-	96	1,008
12/29/2019	-	-	-	96	960
12/30/2019	16.38	14.27	20.0	96	1,128
12/31/2019	-	6.52	8.0	0	1,104

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions - 2019 Annual Report

EPA ID	Daily Emission Limit (lb/day)	Highest Daily Actual (lb/day)	Annual Emission Limit (tpy)	2019 Annual Emissions (tpy)
PCWR-SM-SD	31.87	25.48	4.97	0.55
PCWR-SM-SDB	6.98	5.58	1.09	0.12
PCWR-SM-CH	26.23	20.97	4.09	0.45
PT	19.39	15.50	2.52	0.33
PCWR-PM-SH	19.75	16.58	3.08	0.34
PCWR-PM-SD	17.77	14.92	2.77	0.30
PCWR-PM-PSB	3.95	3.32	0.62	0.07
PCWR-PM-PTB	3.95	3.95	0.62	0.09
PB-1	15.37	13.57	2.28	0.23
PB-2	16.98	15.08	3.1	0.39

	Sawmill				Planer Mill		
Date	PCWR-SM-SD	PCWR-SM-SDB	PCWR-SM-CH	PT	PCWR-PM-SH	PCWR-PM-SD	PCWR-PM-PSB
	1.3280 lb/hr	0.2907 lb/hr	1.0929 lb/hr	0.8079 lb/hr	0.8229 lb/hr	0.7406 lb/hr	0.1646 lb/hr
10/16/2019	24.19	5.30	19.91	14.72	14.26	12.84	2.85
10/17/2019	23.57	5.16	19.40	14.34	13.44	12.10	2.69
10/18/2019	-	-	-	-	-	-	-
10/19/2019	-	-	-	-	-	-	-
10/20/2019	-	-	-	-	-	-	-
10/21/2019	23.90	5.23	19.67	14.54	14.04	12.64	2.81
10/22/2019	22.69	4.97	18.67	13.80	13.50	12.15	2.70
10/23/2019	22.86	5.00	18.82	13.91	13.92	12.53	2.78
10/24/2019	22.82	5.00	18.78	13.88	13.82	12.44	2.77
10/25/2019	23.37	5.12	19.24	14.22	12.12	10.91	2.43
10/26/2019	23.68	5.18	19.49	14.41	-	-	-
10/27/2019	-	-	-	-	-	-	-
10/28/2019	-	-	-	-	13.30	11.97	2.66
10/29/2019	21.82	4.78	17.96	13.28	14.57	13.11	2.91
10/30/2019	22.64	4.96	18.63	13.77	14.24	12.81	2.85
10/31/2019	24.01	5.26	19.76	14.61	14.18	12.76	2.84
11/1/2019	23.84	5.22	19.62	14.50	-	-	-
11/2/2019	-	-	-	-	-	-	-
11/3/2019	-	-	-	-	-	-	-
11/4/2019	20.43	4.47	16.81	12.43	13.52	12.17	2.70
11/5/2019	23.55	5.16	19.38	14.33	14.95	13.45	2.99
11/6/2019	24.06	5.27	19.80	14.64	15.46	13.91	3.09
11/7/2019	24.26	5.31	19.96	14.76	12.96	11.66	2.59
11/8/2019	24.10	5.28	19.84	14.66	12.18	10.96	2.44
11/9/2019	-	-	-	-	-	-	-
11/10/2019	-	-	-	-	-	-	-
11/11/2019	22.78	4.99	18.74	13.86	14.32	12.89	2.86
11/12/2019	21.05	4.61	17.32	12.81	9.81	8.83	1.96
11/13/2019	24.28	5.31	19.98	14.77	13.84	12.45	2.77
11/14/2019	21.80	4.77	17.94	13.26	13.78	12.41	2.76
11/15/2019	-	-	-	-	13.28	11.95	2.66
11/16/2019	-	-	-	-	-	-	-
11/17/2019	-	-	-	-	-	-	-
11/18/2019	24.90	5.45	20.49	15.15	14.15	12.74	2.83
11/19/2019	23.99	5.25	19.75	14.60	13.96	12.57	2.79
11/20/2019	24.15	5.29	19.87	14.69	14.59	13.13	2.92
11/21/2019	22.73	4.98	18.71	13.83	12.63	11.37	2.53
11/22/2019	24.19	5.30	19.91	14.72	14.36	12.92	2.87
11/23/2019	-	-	-	-	-	-	-
11/24/2019	-	-	-	-	-	-	-
11/25/2019	23.55	5.16	19.38	14.33	13.95	12.55	2.79
11/26/2019	24.48	5.36	20.15	14.89	12.54	11.28	2.51
11/27/2019	23.90	5.23	19.67	14.54	14.92	13.43	2.98
11/28/2019	-	-	-	-	-	-	-
11/29/2019	-	-	-	-	-	-	-
11/30/2019	-	-	-	-	-	-	-
12/1/2019	-	-	-	-	-	-	-

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions - 2019 Annual Report

EPA ID	Daily Emission Limit (lb/day)	Highest Daily Actual (lb/day)	Annual Emission Limit (tpy)	2019 Annual Emissions (tpy)
PCWR-SM-SD	31.87	25.48	4.97	0.55
PCWR-SM-SDB	6.98	5.58	1.09	0.12
PCWR-SM-CH	26.23	20.97	4.09	0.45
PT	19.39	15.50	2.52	0.33
PCWR-PM-SH	19.75	16.58	3.08	0.34
PCWR-PM-5D	17.77	14.92	2.77	0.30
PCWR-PM-PSB	3.95	3.32	0.62	0.07
PCWR-PM-PTB	3.95	3.95	0.62	0.09
PB-1	15.37	13.57	2.28	0.23
PB-2	16.98	15.08	3.1	0.39

	Sawmill				Planer Mill		
Date	PCWR-SM-SD	PCWR-SM-SDB	PCWR-SM-CH	PT	PCWR-PM-SH	PCWR-PM-SD	PCWR-PM-PSB
12/2/2019	17.62	3.86	14.50	10.72	12.84	11.55	2.57
12/3/2019	22.86	5.00	18.82	13.91	13.07	11.76	2.61
12/4/2019	20.94	4.58	17.23	12.74	16.46	14.81	3.29
12/5/2019	24.41	5.34	20.09	14.85	12.70	11.43	2.54
12/6/2019	22.47	4.92	18.49	13.67	14.85	13.37	2.97
12/7/2019	-	-	-	-	-	-	-
12/8/2019	-	-	-	-	-	-	-
12/9/2019	24.52	5.37	20.18	14.92	14.62	13.16	2.92
12/10/2019	24.99	5.47	20.56	15.20	14.61	13.15	2.92
12/11/2019	24.32	5.32	20.02	14.80	12.15	10.94	2.43
12/12/2019	25.43	5.57	20.93	15.47	13.41	12.07	2.68
12/13/2019	24.57	5.38	20.22	14.95	13.77	12.39	2.75
12/14/2019	-	-	-	-	-	-	-
12/15/2019	-	-	-	-	-	-	-
12/16/2019	23.24	5.09	19.13	14.14	15.36	13.82	3.07
12/17/2019	23.68	5.18	19.49	14.41	15.13	13.61	3.03
12/18/2019	21.78	4.77	17.92	13.25	16.58	14.92	3.32
12/19/2019	25.14	5.50	20.69	15.30	15.21	13.69	3.04
12/20/2019	25.48	5.58	20.97	15.50	15.07	13.57	3.01
12/21/2019	-	-	-	-	3.99	3.59	0.80
12/22/2019	-	-	-	-	-	-	-
12/23/2019	-	-	-	-	13.98	12.58	2.80
12/24/2019	-	-	-	-	-	-	-
12/25/2019	-	-	-	-	-	-	-
12/26/2019	23.48	5.14	19.33	14.29	13.63	12.27	2.73
12/27/2019	24.59	5.38	20.24	14.96	13.70	12.33	2.74
12/28/2019	-	-	-	-	-	-	-
12/29/2019	-	-	-	-	-	-	-
12/30/2019	21.76	4.76	17.91	13.24	11.74	10.57	2.35
12/31/2019	-	-	-	-	5.36	4.83	1.07

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions - 2019 Annual Report

	Baghouse #4	CE Boiler	Riley Boiler
Date	PCWR-PM-PTB	PB-1	PB-2
	0.1646 lb/hr	0.01488 lb/mlb steam	0.00722 lb/mlb steam
10/16/2019	3.95	13.57	11.61
10/17/2019	3.95	10.71	9.01
10/18/2019	1.52	2.14	6.76
10/19/2019	-	0.71	7.62
10/20/2019	-	6.07	9.88
10/21/2019	3.95	12.50	11.96
10/22/2019	3.95	12.14	13.17
10/23/2019	3.95	12.14	13.17
10/24/2019	3.95	8.93	10.05
10/25/2019	3.95	6.43	7.80
10/26/2019	1.77	0.71	5.20
10/27/2019	-	3.93	9.88
10/28/2019	3.95	9.64	13.69
10/29/2019	3.95	10.71	14.38
10/30/2019	3.29	10.00	14.04
10/31/2019	3.95	11.78	11.26
11/1/2019	2.63	2.50	8.14
11/2/2019	-	1.43	8.14
11/3/2019	-	6.43	10.40
11/4/2019	3.95	12.14	14.21
11/5/2019	3.95	11.43	14.90
11/6/2019	3.95	11.43	14.21
11/7/2019	3.29	8.93	10.92
11/8/2019	3.95	1.43	6.93
11/9/2019	-	1.07	6.06
11/10/2019	-	2.86	10.05
11/11/2019	3.29	8.57	14.21
11/12/2019	3.95	8.21	13.86
11/13/2019	3.95	11.07	14.04
11/14/2019	3.95	11.07	10.74
11/15/2019	3.29	1.43	7.80
11/16/2019	-	1.43	7.45
11/17/2019	-	2.50	9.18
11/18/2019	3.29	10.00	12.13
11/19/2019	3.95	10.36	13.17
11/20/2019	3.95	11.43	12.48
11/21/2019	3.95	12.14	10.92
11/22/2019	3.29	2.86	8.14
11/23/2019	-	1.43	6.93
11/24/2019	-	3.93	11.61
11/25/2019	3.95	9.64	12.82
11/26/2019	3.74	8.21	10.57
11/27/2019	3.66	1.43	9.18
11/28/2019	-	1.43	6.58
11/29/2019	-	1.43	8.14
11/30/2019	-	1.43	6.93
12/1/2019	-	2.50	12.48

Sawmill, Planer Mill, Baghouse 4, and Boiler Actual PM2.5 Emissions - 2019 Annual Report

	Baghouse #4	CE Boiler	Riley Boiler
Date	PCWR-PM-PTB	PB-1	PB-2
12/2/2019	3.29	6.43	13.17
12/3/2019	3.95	12.50	13.17
12/4/2019	3.95	12.50	13.86
12/5/2019	3.95	1.43	10.22
12/6/2019	3.29	1.07	7.28
12/7/2019	-	1.07	6.06
12/8/2019	-	6.07	10.40
12/9/2019	3.95	10.36	15.08
12/10/2019	3.95	9.64	14.73
12/11/2019	3.95	10.71	14.21
12/12/2019	3.95	11.07	10.74
12/13/2019	3.29	2.50	7.10
12/14/2019	-	3.93	3.99
12/15/2019	-	4.64	10.22
12/16/2019	3.95	10.36	14.04
12/17/2019	3.95	11.78	14.73
12/18/2019	3.95	11.78	13.86
12/19/2019	3.95	3.21	10.05
12/20/2019	3.64	1.43	7.62
12/21/2019	1.32	1.43	7.62
12/22/2019	-	1.43	7.80
12/23/2019	3.29	1.43	7.10
12/24/2019	-	1.43	8.14
12/25/2019	-	1.43	7.45
12/26/2019	3.29	1.43	6.06
12/27/2019	3.29	1.43	7.62
12/28/2019	-	1.43	7.28
12/29/2019	-	1.43	6.93
12/30/2019	3.29	1.43	8.14
12/31/2019	1.32	-	7.97

PotlachDeltic - St. Maries Complex

Kiln 6 Monitoring Summary and VOC Emissions

2019 Annual Report

- Summarizes kiln data from each batch of lumber started in 2019
- Calculates VOC emission factor per batch and VOC emissions per batch.

50.0 tpy VOC - Emission Limit from Condition 3.2 of PSD Permit No. R10PSD00102

6.55 tpy 2019 Actual VOC emissions

Batch (End Date)	Lumber Dried (bf/batch)	Wood Species	Min 6-Min Ave Moisture Content (%)	Max 60-Minute Ave Exit Temp (F)	Max 60-Minute Ave Enter Temp (F)	VOC EF (lb/mbf)	VOC Emissions (tons/batch)
10/17/2019	282,000	Grand Fir/White Fir	15	239	251	1.08	0.15
10/20/2019	269,568	Grand Fir/White Fir	15	242	249	1.06	0.14
10/21/2019	269,568	Grand Fir/White Fir	15	243	248	1.05	0.14
10/23/2019	269,568	Grand Fir/White Fir	14	244	246	1.04	0.14
10/24/2019	269,568	Grand Fir/White Fir	15	242	256	1.11	0.15
10/26/2019	269,568	Grand Fir/White Fir	15	242	245	1.03	0.14
10/28/2019	269,568	Grand Fir/White Fir	15	242	246	1.04	0.14
10/29/2019	280,000	Grand Fir/White Fir	14	241	248	1.05	0.15
10/31/2019	266,748	Grand Fir/White Fir	15	246	250	1.07	0.14
11/2/2019	280,000	Grand Fir/White Fir	15	247	253	1.09	0.15
11/3/2019	279,504	Grand Fir/White Fir	15	241	246	1.04	0.15
11/5/2019	272,502	Grand Fir/White Fir	15	243	245	1.03	0.14
11/7/2019	268,632	Grand Fir/White Fir	15	243	245	1.03	0.14
11/9/2019	269,568	Grand Fir/White Fir	15	247	248	1.06	0.14
11/10/2019	269,568	Grand Fir/White Fir	15	245	250	1.07	0.14
11/12/2019	269,568	Grand Fir/White Fir	15	245	250	1.07	0.14
11/13/2019	253,656	Grand Fir/White Fir	15	254	250	1.07	0.14
11/15/2019	269,707	Grand Fir/White Fir	15	250	247	1.05	0.14
11/17/2019	280,000	Grand Fir/White Fir	15	245	247	1.05	0.15
11/19/2019	274,398	Grand Fir/White Fir	14	244	247	1.05	0.14
11/20/2019	267,000	Grand Fir/White Fir	15	241	242	1.02	0.14
11/22/2019	280,000	Grand Fir/White Fir	14	242	242	1.02	0.14
11/24/2019	280,000	Grand Fir/White Fir	15	241	243	1.02	0.14
11/25/2019	280,000	Grand Fir/White Fir	15	241	243	1.02	0.14
11/27/2019	279,504	Grand Fir/White Fir	15	239	244	1.03	0.14
11/29/2019	275,346	Grand Fir/White Fir	15	239	242	1.01	0.14
11/30/2019	280,000	Grand Fir/White Fir	14	239	242	1.02	0.14
12/2/2019	278,256	Grand Fir/White Fir	15	240	242	1.01	0.14
12/4/2019	272,690	Grand Fir/White Fir	15	245	255	1.10	0.15
12/6/2019	280,000	Grand Fir/White Fir	15	240	242	1.02	0.14
12/8/2019	272,604	Grand Fir/White Fir	14	240	242	1.02	0.14
12/9/2019	280,000	Grand Fir/White Fir	15	238	241	1.01	0.14
12/11/2019	279,081	Grand Fir/White Fir	14	238	242	1.02	0.14
12/12/2019	282,426	Grand Fir/White Fir	15	239	247	1.05	0.15

PotlachDeltic - St. Maries Complex

Kiln 6 Monitoring Summary and VOC Emissions

2019 Annual Report

- Summarizes kiln data from each batch of lumber started in 2019
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50.0 tpy VOC - Emission Limit from Condition 3.2 of PSD Permit No. R10PSD00102

6.55 tpy 2019 Actual VOC emissions

Batch (End Date)	Lumber Dried (bf/batch)	Wood Species	Min 6-Min Ave Moisture Content (%)	Max 60-Minute Ave Exit Temp (F)	Max 60-Minute Ave Enter Temp (F)	VOC EF (lb/mbf)	VOC Emissions (tons/batch)
12/14/2019	274,560	Grand Fir/White Fir	15	239	242	1.02	0.14
12/17/2019	279,504	Grand Fir/White Fir	14	240	242	1.01	0.14
12/18/2019	279,504	Grand Fir/White Fir	15	242	247	1.05	0.15
12/20/2019	273,189	Grand Fir/White Fir	15	240	244	1.03	0.14
12/22/2019	278,256	Grand Fir/White Fir	15	239	243	1.02	0.14
12/23/2019	282,426	Grand Fir/White Fir	15	239	242	1.02	0.14
12/25/2019	279,552	Grand Fir/White Fir	15	239	242	1.02	0.14
12/27/2019	269,568	Grand Fir/White Fir	15	244	243	1.02	0.14
12/28/2019	269,568	Grand Fir/White Fir	16	240	242	1.02	0.14
12/30/2019	272,376	Grand Fir/White Fir	15	239	242	1.01	0.14
12/31/2019	272,376	Grand Fir/White Fir	15	241	244	1.03	0.14
1/2/2020	272,376	Grand Fir/White Fir	15	240	243	1.02	0.14

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 10/31/2019 05:32 End: 10/31/2019 08:20

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 11/1/2019 19:25 End: 11/1/2019 21:01

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 11/2/2019 00:26 End: 11/2/2019 03:32

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 11/8/2019 19:40 End: 11/8/2019 21:58

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 11/13/2019 20:46 End: 11/13/2019 23:50

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.

Permit Term (for Which There is a Deviation): Condition 3.3

Emission Units (unit IDs) LK-6

Deviation Start: 11/15/2019 19:14 End: 11/15/2019 22:26

Probable Cause of Deviation: Monitoring condition does not match kiln management system.

Corrective Actions or Preventative Measures Taken: PotlatchDeltic discussed changes to permit term to match kiln management system.